AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1-11. (canceled).

12. (currently amended): A LAN communication system comprising:

a transmitting side system including:

a voice signal input part for inputting data to be sent out to LAN;

a transmitting side CODEC part that converts a signal representing the data inputted from

the voice signal input part to digital codes;

a transmission buffer part including a data buffer part that temporarily stores data packets

of the digital codes generated in the transmitting side CODEC part until the CODEC data packet

is sent out to the LAN and a plural CODEC data multiplexing part that multiplexes a

predetermined plurality of data packets to form transmission data;

a simultaneous transmission packet number setting part that sets the number of data

packets to be multiplexed in the plural CODEC multiplexing part in the transmitting side system;

a transmitting part that receives the multiplexed transmission data from the transmission

buffer and sends out the received transmission data to LAN; and

a receiving side system including:

a receiving part that receives the transmission data from the LAN;

a reception buffer part including a plural CODEC packet decoding part that develops the multiplexed transmission data received in the receiving part and rearranges the developed data to a continuous data train and a jitter data buffer part for temporarily storing data from the plural CODEC packet decoding part;

a receiving side CODEC part that receives and decodes the digital data from the reception buffer part; and

an output part that reconstructs and outputs the data reconstructed in the receiving side CODEC part;

~~The LAN communication system according to claim 10,~~ wherein the receiving side system further includes a CODEC packet non-arrival factor computing part ~~for computing~~ that computes -a ~~the~~ CODEC packet non-arrival factor ~~of CODEC data packet number~~ as a ratio of the number of CODEC data packets processed as data non-arrival ~~concerning~~ regarding CODEC data obtained by sequentially rearranging in the reception buffer part to the ~~full~~ total transmitted CODEC data packet number and ~~informing~~ transmitting, when the non-arrival factor exceeds a predetermined reference value, a simultaneous transmission packet number change request to the simultaneous transmission packet number setting part in the transmitting side system. ~~on the basis of the comparison of the computed non-arrival factor and a predetermined reference value.~~

13. (currently amended): A LAN communication system comprising: a transmitting side system including:

an input part for inputting data to be sent out to LAN;

a transmitting side CODEC part for converting signal representing data inputted from the input part to digital signal;

a transmission buffer part including a data buffer part temporarily storing CODEC data packets of digital codes generated in the transmitting side CODEC part and a plural CODEC data multiplexing part for multiplexing a predetermined plurality of CODEC data packets to form transmission data;

a simultaneous transmission packet number setting part for setting the number of CODEC data packets to be multiplexed in the plural CODEC data multiplexing part in response to a request command from a receiving side system corresponding to the transmitting side system; and

a transmitting part for receiving multiplexed transmission data from the transmission buffer part to send to the LAN; and

the receiving side system including:

a receiving part for receiving transmission data from the LAN;

a reception buffer part having a plural CODEC packet decoding part for developing the multiplexed transmission data received from the receiving part, rearranging the sequential order of the developed data packets and rearranging the data packets to forma continuous data train,

and a jitter data buffer part for temporarily storing data from the plural CODEC packet decoding

part;

a simultaneous reception packet number setting part for setting a number of packets to be

dealt with in the plural CODEC packet decoding part as belonging to the same time frame and

being received simultaneously, recognizing the number of CODEC data packets to be

multiplexed, as set in the simultaneous transmission packet number setting part in the

transmitting side system, on the basis of the data received in the receiving part, recognizing the

number of CODEC data packets, which are among a plurality of multiplexedly transmitted

CODEC data packets and, belong to the same time frame and are actually simultaneously

received, on the basis of the data received in the receiving part and, when the degree of failure of

meeting of the transmitted CODEC data packet number by the actually received CODED data

packets exceeds a predetermined threshold value, issuing a command for reducing the number of

CODED data packets to be multiplexed as a request command to be issued to the simultaneous

transmission packet setting part on the transmitting side;

a receiving side CODEC part for receiving and decoding digital data from the reception

buffer part; and

an output part for reconstructing and outputting data obtained by decoding in the

receiving side CODED CODEC part.

14. (currently amended): A LAN communication system comprising:

a transmitting side system including:

an input part for inputting data to be sent out to LAN:

a transmitting side CODEC part for converting signal representing data inputted from the input part to digital signal to form CODEC data and performing conversion to packets in predetermined time intervals;

a transmitting side CODEC packet conversion timing setting part for setting the time interval of packet conversion of CODEC data in the transmitting side CODEC part in response to a request for setting from a receiving side system corresponding to the transmitting side system;

a transmission buffer part including a data buffer part for temporarily storing CODEC data packet of digital codes generated in the transmitting side ~~CODED~~ CODEC part and a plural CODEC data multiplexing part for multiplexing a predetermined plurality of CODEC data packets to form transmission data;

a simultaneous transmission packet number setting part for setting the number of CODEC data packets to be multiplexed in the plural CODEC data multiplexing part in response to a request command from the receiving side system corresponding to the transmitting side system; and

a transmitting part for receiving the multiplexed transmission data from the transmission buffer part and sending out the received data to the LAN; and

the receiving side system comprising:

a receiving part for receiving multiplexed transmission data from the LAN;

a reception buffer part including a plural CODEC packet decoding part for developing

the multiplexed transmission data received in the receiving part, arranging the obtained data

packets in sequence order and rearranging these data packets to form a continuous data train, and

a jitter data buffer part for temporarily storing data from the plural CODEC packet decoding

part;

a simultaneous reception packet number setting part for setting the number of data

packets to be dealt with in the plural CODEC packet decoding part as data packets belonging to

the same time frame and received simultaneously;

a CODEC packet non-arrival factor computing part for computing the non-arrival factor

of ~~CEDEC~~ CODEC data packet number as the ratio of the number of data packets processed as

data non-arrival regarding CODEC data obtained by sequential rearranging in the reception

buffer part to the total transmitted data packet number, ~~informing~~transmitting, when the non-

arrival factor exceeds a predetermined reference value, a request for increasing the simultaneous

transmission packet number to the simultaneous transmission number setting part in the

transmitting side system, and issuing a packet conversion timing time interval setting request for

causing the transmitting side CODEC part to set the CODEC data packet conversion time

interval according to the non-arrival factor;

a receiving side CODEC packet conversion timing setting part for issuing, when

receiving the packet conversion timing time interval setting request from the CODEC packet

non-arrival factor computing part, the setting request to the transmitting side CODEC packet

conversion timing setting part;

a receiving side CODEC part for receiving and decoding digital data from the reception

buffer part; and

an output part for reconstructing and outputting the data obtained by decoding in the

receiving side CODEC part.

15. (original): A LAN communication system according to claim 14, wherein the

CODEC packet non-arrival factor computing part has an arrangement having a table, which

prescribes packet conversion time intervals of applied CODEC data determined based on the

non-arrival factor and issuing packet timing time interval setting request according to the table

data.

16. (original): The LAN communication system according to claim 14, wherein when

the transmitting side CODEC packet conversation timing setting part sets the CODEC data

packet conversion time interval in response to a setting request from the receiving side system

corresponding to the transmitting side system, it sends out a time setting request reception

success information to the receiving side at the success time.

17. (original): The LAN communication system according to claim 14, which further

comprises a preliminary data re-compressing part for supplying data obtained by a re-

compressing process with a compression factor corresponding to the pertinent data to the plural

CODEC data multiplexing part in the transmission buffer part on the basis of a table, in which

compression factor to be applied are stored in correspondence to sequence systems of a plurality

of CODED data packets, and a preliminary data re-compression decoding part for executing a re-

compression decoding process corresponding to the recompression process in the preliminary

data re-compressing part on data processed in the plural CODEC data packet decoding part in the

reception buffer part.